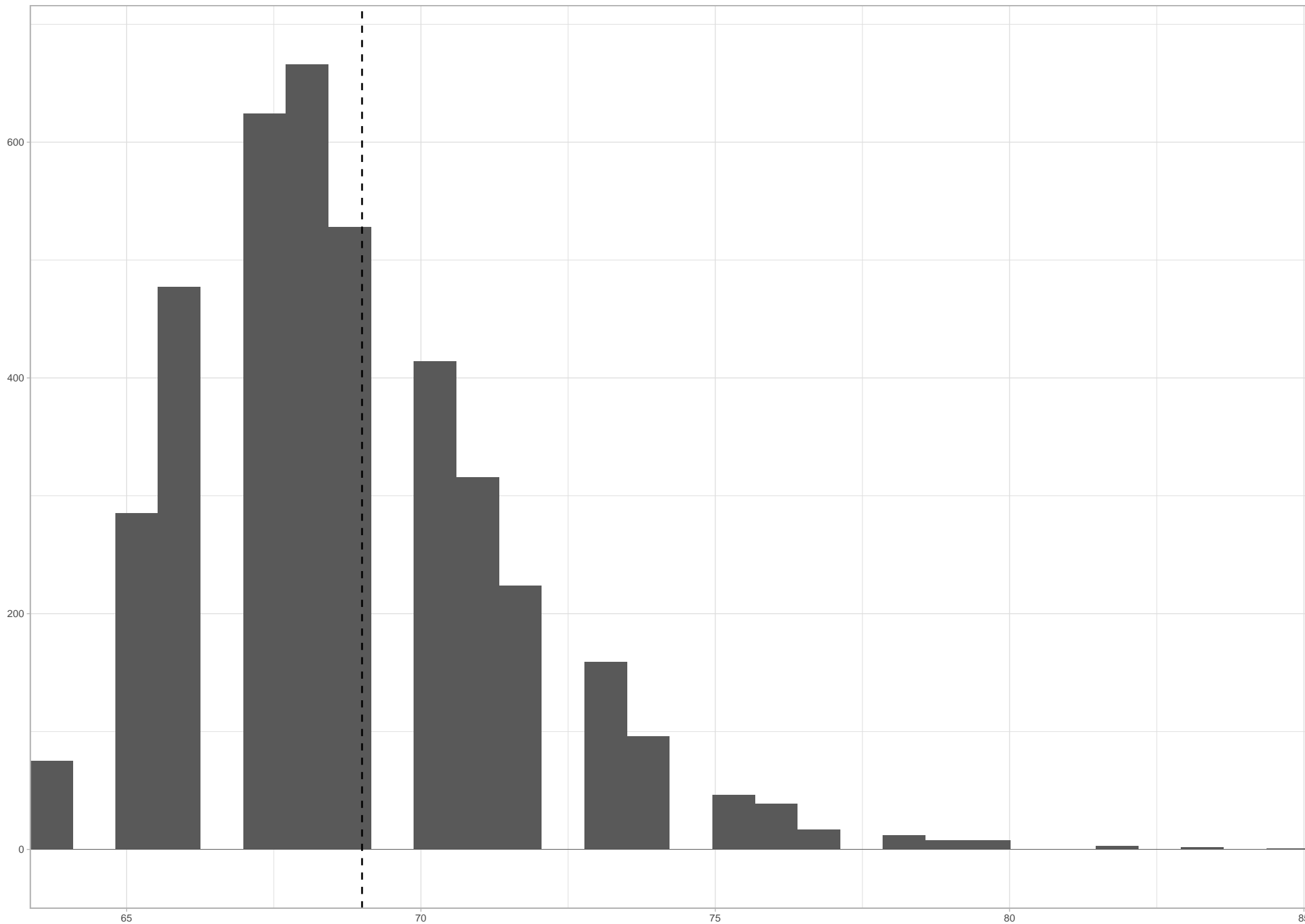


Figure 7.1: Model 1, Posterior Draws of Deaths in 2015 on 30 mph roads (unweighted)



This figure exhibits a histogram of draws from the posterior predictive distribution of the total number of fatalities on the 30 mph road regions in 2015 set aside as a test set. The dotted line represents the observed number of fatalities on those road regions. The p-value is the proportion of simulations exceeding the number observed in 2015. The purpose of this figure is to ensure that the model is predictive of the fatality rate of the roads that did not have their posted speed limits reduced to 25 mph.